

# pH Spear

Great for food applications!

## Rugged spear tip electrode

easily penetrates soft solids and semisolids

## ±0.01 pH accuracy with push-button three-point calibration

Calibrate at 4.01, 7.00, and 10.00. Tester automatically provides offset and two slope adjustments

## Unique open-pore double junction electrode design

resists clogging and contamination

## Waterproof, dustproof housing

IP67 rated, maintains the integrity of your tester even in dirty or damp field conditions. Plus, there's no need to worry if you drop your tester into water—it floats!

## Replaceable electrode

Reuse the same meter body

## Error messages, Hold function, Auto-off

## Waterproof housing is great for outdoor measurements

Compact size makes it easy to take this. Test anywhere. Double junction electrode will keep working even where pollutants cause problems for other meters.

## Applications

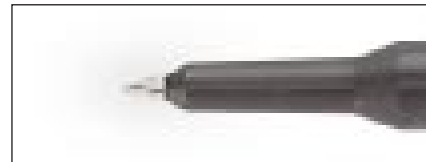
**Food:** Open-pore sensor enclosed in a resilient engineered plastic body makes it ideal for piercing solid or semisolid food samples such as cheese, meats, ice cream, salami, bread, fruits, and similar samples.



Left: Waterproof pH Spear

Right: pH Spear is perfect for a variety of food applications.

Bottom: Spear tip electrode easily penetrates soft solids and semisolids



ISO 9001:2000  
CERTIFIED SUPPLIER



1 year warranty

## Specifications

Model	pH Spear
Range	-1.00 to 15.00 pH
Resolution	0.01 pH
Accuracy	±0.01 pH at normal room temperature; ±0.05 pH at extremes in temperature range
Calibration	Select up to three points (USA: 4.01; 7.00; 10.00 or NIST: 4.01; 6.86; 9.18)
Operating temperature	0 to 50°C (32 to 122°F)
Temperature compensation	None
Special functions	On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm
Power and battery life	Four 1.5 V alkaline batteries (included), 500 hours (approx). Equivalent replacement Eveready A761 LR44
Dimensions	Unit only: 6.5" x 1.5" dia (16.5 x 3.8 cm); Boxed: 7.25" x 2.75" x 1.875" (18.4 x 7 x 4.8 cm)
Weight	Unit only: 3.25 oz (90 g); Boxed: 6.0 oz (170 g)

## Ordering Information

Cat. no.	Description	Included
WD-35634-40	pH Spear	Tester, spear tip electrode, instructions, and batteries

WD-35634-50 Replacement electrode for pH Spear

WD-35624-70 Calibration kit, includes pH "Singles" calibration pouches (two each pH 4.01, 7.00, 10.00, and rinse water), sample jar, instructions and carrying case. 10.5" x 9" x 3.25" (27 x 23 x 8 cm). Tester not included.

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6

## FOOD SAFETY!

For our complete line of Oakton® food safety IR thermometers, please see our **Oakton Temperature and Humidity Catalog** or go to [www.4oakton.com](http://www.4oakton.com) for details.



## Build your Own Tester Kit!

Easily mix and match Testers, electrodes, and replacement components to get the exact kit you need. Choose one or two Testers, one or two replacement electrodes, buffer and rinse water pouches, and accessories. See page 9 to order.

# pHTestr<sup>®</sup> 10 BNC

Waterproof, dustproof tester connects to any pH electrode with BNC connector

## Waterproof, dustproof housing

IP67-rated housing, maintains the integrity of your tester even in harsh field conditions.

## Connects to any electrode with BNC connector

Use tester in virtually any application, even highly specialized ones

## Microprocessor-based functions

for fast, stable readings

## Push-button calibration with auto-buffer recognition; three-point calibration

at pH 4.01, 7.00, and 10.00

## ±0.01 pH accuracy

Performs like an advanced handheld meter with pocket-sized convenience

## Hold function; Auto-off function; Error messages

**Customize your electrode to virtually any application with the pHTestr BNC.** The pHTestr BNC connects to any electrode with a BNC connector. The IP67-rated waterproof, dustproof housing protects tester from rugged field or plant environments. It floats, so you won't lose your tester by dropping it into a tank or pond.

This tester features all push-button operation and a splash-resistant membrane keypad. Lanyard loop allows you to attach cord. Thermoplastic body offers good chemical compatibility and durability.

## Applications

**General:** Ideal for quick and easy pH checks in most applications, including aquariums, food processing, laboratory photographic development, printing processes, hydroponics, and pool/spa water analysis. Ideal for highly specialized applications that require specially shaped electrodes—like spear tipped, flat tipped, or special diameter models.

**Industrial:** Great for wastewater treatment checks, water conditioning plants, coolant testing, cooling towers and plating/finishing operations, plus many other chemical process applications. Use long cabled electrodes to get into hard-to-reach places, or for checking readings from pH electrodes submersed in tanks or pipelines.

**Educational:** Ideal for all levels of education. Use a small-diameter electrode that fits in test tubes.



Use with direct connect or cabled electrodes



IP67-rated waterproof, dustproof housing floats. Shown with direct current electrode

A wide range of accessories for your pHTestr BNC, including calibration solutions, are available. See page 9 to order.

## pH/ORP Measurement Testers



Tactile button keypad with positive "clicks" confirming your button selection

pHTestr 10 BNC

BNC connection lets you connect a wide variety of electrodes

ISO9001:2000  
CERTIFIED SUPPLIER

CE 1 year warranty

## Specifications

Model	pHTestr 10 BNC
Range	-1.00 to 15.00 pH
Resolution	0.01 pH
Accuracy	±0.01 pH (meter only, or when calibration and tests are at room temperature (62-81°F))
Calibration	Select up to three points (USA: 4.01; 7.00; 10.00 or NIST: 4.01; 6.86; 9.18)
Temp compensation	None
Operating temp	0 to 50°C (32 to 122°F)
Special functions	On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm
Power and battery life	Four 1.5 V alkaline batteries (included), 250 hours continuous use (approx). Equivalent replacement Eveready A761 LR44
Dimensions	Unit: 5.875"L x 1.5"W x .75"H (15 x 4 x 2.5 cm); Boxed: 7.75"L x 2.75"W x 1.875"H (18.4 x 7 x 4.8 cm)
Weight	Unit: 3.25 oz (90 g); Boxed: 6 oz (170 g)

## Ordering Information

Cat. no.	Description	Included
WD-35634-14	pHTestr 10 BNC	Testr, instructions, and batteries. (Order BNC electrode separately.)

**WD-35624-70 Calibration kit**, includes pH "Singles" calibration pouches (two each pH 4.01, 7.00, 10.00, and rinse water), sample jar, instructions and carrying case (order tester and electrode separately). 10.5" x 9" x 3.25" (27 x 23 x 8 cm).

**WD-09377-16 Replacement batteries**, 1.5 V. Pack of 6

## pH Electrodes

These cable-free electrodes plug directly into tester for easy one-handed operation. Use single junction electrodes for clean water applications. Use double junction electrodes for solutions with organics, sulfides, heavy metals, or high pH. All electrodes feature sealed, epoxy-body construction. For a wider selection of pH electrodes, including electrodes with cables, see pages 36-39.

Cat. no.	Description	pH range	Junction	Applications
WD-35804-00	12 mm dia	0 to 12	Single	Clean water, low ionic strength solutions.
WD-35804-10	Flat surface; 12 mm dia	0 to 12	Single	For surface testing such as gels, food, skin, floors, concrete. For small liquid volumes.
WD-35804-09	Calomel reference; 12 mm dia	0 to 12	Single	Life sciences, Tris buffers, and dirty water.
WD-35804-08	12 mm dia	0 to 14	Double	Dirty water, high strength solutions, has low sodium error above pH 12.
WD-35804-02	12 mm dia	0 to 12	Double	Dirty water, high strength solutions.
WD-35804-03	9 mm dia	0 to 12	Double	Small diameter fits test tubes. Dirty water, high strength solutions.